

WHAT IS CLAIMED IS:

1. A swing-arm clamp comprising:
an actuator;
a piston movable in response to the actuator;
a body having the piston movable therein;
a piston rod located within the body and extending from the piston;
wherein the piston rod is movable through the body in response to movement by the piston along a longitudinal axis between first and second positions; and
wherein the piston rod is also movable about the longitudinal axis as it is movable along the longitudinal axis;
an arm attached to the piston rod being movable both along the longitudinal axis between the first and second positions, and about the longitudinal axis;
a guide;
a locating member movable in concert with the piston rod;
wherein the locating member engages the guide when the arm is located in the first position and separates from the guide when in the second position.
2. The swing-arm clamp of Claim 1, wherein the first position of the arm and piston rod is a clamping retracted position.
3. The swing-arm clamp of Claim 1, wherein the second position is the releasing extended position.
4. The swing-arm clamp of Claim 1, wherein the guide is attached to the body.
5. The swing-arm clamp of Claim 4, wherein the guide is adjustable with respect to the body.

6. The swing-arm clamp of Claim 1, further comprising a plug attachable to the body and movable with respect thereto.

7. The swing-arm clamp of Claim 6, wherein the plug is selectively positionable to affect the positioning of the piston rod about the longitudinal axis at the first and second positions.

8. The swing-arm clamp of Claim 7, wherein the plug can be selectively locked in a desired position.

9. The swing-arm clamp of Claim 7, wherein the plug is located in a bore in the body.

10. The swing-arm clamp of Claim 9, wherein the plug further comprises a threaded periphery that is engagable with a threaded periphery on the bore.

11. The swing-arm clamp of Claim 10, wherein the plug further comprises a set that secures the plug in a desired position.

12. The swing-arm clamp of Claim 11, wherein the plug further comprises a spline disposed therein and the set being a fastener disposed in the plug and engagable with the spline such that engagement of the spline secures the plug in the desired position.

13. The swing-arm clamp of Claim 12, wherein the spline of the plug is disposed in the plug's threaded periphery.

14. The swing-arm clamp of Claim 1, wherein the locating member is attached to the arm.

15. The swing-arm clamp of Claim 1, further comprising a shield that shrouds the piston rod when the same is in its first position.

16. The swing-arm clamp of Claim 15, wherein the locating pin is attached to the shield.

17. The swing-arm clamp of Claim 1, wherein the locating pin is an angled member, one end of which extends into the guide when the piston rod is located in the first position.

18. A swing-arm clamp comprising:
an actuator;
a body;
a rod disposed in the body, movable longitudinally in response to the actuator, and rotatable with respect to its longitudinal movement;
wherein the rod is at least partially extendable from the body;
a clamp arm attached to the rod; and
a shield that at least partially obscures at least a portion of the rod that is at least partially extended from the body.

19. The swing-arm clamp of Claim 18, wherein the rod is movable between first and second positions.

20. The swing-arm clamp of Claim 18, wherein the shield obscures the portion of the rod that is extended from the body when the rod is in the first position.

21. The swing-arm clamp of Claim 18, wherein the shield is located adjacent the clamp arm.

22. The swing-arm clamp of Claim 18, further comprising a locating member attached to the clamp that is engagable with a guide member which is also attached to the clamp.

23. A swing-arm clamp comprising:
a body;
a piston assembly disposed in the body and movable longitudinally with respect to the body;
a cam member having a camming surface disposed therein being in communication with the piston assembly to cause movement of same askew of its longitudinal movement; and
a base attached to the cam member;
wherein the base is selectively movable to affect the askew movement of the piston assembly.

24. The swing-arm clamp of Claim 23, wherein the base further comprises a lock that will selectively maintain the base at a desired position.

25. The swing-arm clamp of Claim 24, wherein the lock is a fastener.

26. The swing-arm clamp of Claim 25, wherein the base is located in a bore disposed in the body.

27. The swing-arm clamp of Claim 26, wherein the base further comprises a threaded periphery that is engagable with a corresponding threaded periphery of the bore.

28. The swing-arm clamp of Claim 27, wherein the base further comprises a spline disposed therein, wherein the fastener is engagable with the spline

such that engagement of the spline by the fastener secures the plug in the desired position.

29. The swing-arm clamp of Claim 28, wherein the spline of the base is disposed in the threaded periphery of the base.

30. A swing-arm clamp having a rod extending from a body that is movable along a longitudinal axis and movable through the body between clamping and releasing positions, as well as being movable about the longitudinal axis, the swing-arm clamp comprising a means for absorbing force caused from backlash created as the swing-arm clamp clamps a workpiece.

31. A swing-arm clamp having a rod extending from a body and is movable through the body along a longitudinal axis between a clamping position and a releasing position as well as movable about the longitudinal axis, and comprising a shroud located adjacent the piston rod to obscure at least a portion of the same when the piston rod is in the clamping position.